```
=> d que
L7                    STR

H2N⌇Ak⌇G1⌇G2        O≡C⌇O⌇Et          O⌇Ak
 8   1   2   3       4 @5  6   7       @9 @10
```

} R= Alkyl Ester

Considered
04/15/04
MEC

```
REP G1=(1-10)  9-1  10-3
VAR G2=NH2/OH/5
NODE ATTRIBUTES:
CONNECT IS E2  RC AT   1
CONNECT IS E2  RC AT  10
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED


GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  10


STEREO ATTRIBUTES: NONE
L9        537472  SEA FILE=REGISTRY ABB=ON  PLU=ON  ((N>1 AND O/ELS) OR (O>1 AND
                  N/ELS)) AND NC=1 NOT (PMS/CI OR IDS/CI OR RSD/FA)
L13       236335  SEA FILE=REGISTRY ABB=ON  PLU=ON  L9 AND (N/ELS AND C/ELS AND
                  O/ELS AND H/ELS) AND 4/ELC.SUB
L15          174  SEA FILE=REGISTRY SUB=L13 SSS FUL L7
L17               STR

H2N⌇Ak⌇G2          O≡C⌇O⌇Et
 1   2   3         4 @5  6   7
```
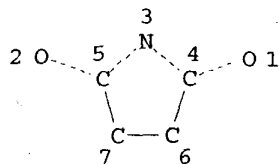
∈ R=Alkyl

```
VAR G2=NH2/OH/5
NODE ATTRIBUTES:
CONNECT IS E2  RC AT   2
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED


GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   7


STEREO ATTRIBUTES: NONE
L19       279433  SEA FILE=REGISTRY ABB=ON  PLU=ON  ((N/ELS AND C/ELS AND H/ELS
                  AND 3/ELC.SUB) OR (N/ELS AND C/ELS AND H/ELS AND O/ELS AND
                  4/ELC.SUB)) AND NC=1 NOT (PMS/CI OR IDS/CI OR RSD/FA)
L21         2985  SEA FILE=REGISTRY SUB=L19 SSS FUL L17
L22       108246  SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15 OR L21
L23        19571  SEA FILE=HCAPLUS ABB=ON  PLU=ON  AGGLUTINATION+NT/CT OR
                  AGGLUTINAT?
L24           62  SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND L23
L26               STR
```

} agglutination

Saccin... gp.

```
NODE ATTRIBUTES:
```

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   7

STEREO ATTRIBUTES: NONE

L28	4595 SEA FILE=REGISTRY SSS FUL L26	
L29	121510 SEA FILE=HCAPLUS ABB=ON PLU=ON	L28 OR SUCCIN?
L30	8 SEA FILE=HCAPLUS ABB=ON PLU=ON	L24 AND L29'
L31	49057 SEA FILE=HCAPLUS ABB=ON PLU=ON	IMMUNOASSAY+OLD,NT/CT
L32	314 SEA FILE=HCAPLUS ABB=ON PLU=ON	L22 AND L31
L33	51 SEA FILE=HCAPLUS ABB=ON PLU=ON	L32 AND L29
L34	6 SEA FILE=HCAPLUS ABB=ON PLU=ON	L33 AND L23
L35	8 SEA FILE=HCAPLUS ABB=ON PLU=ON	L30 OR L34
L36	43 SEA FILE=HCAPLUS ABB=ON PLU=ON	L33 AND ANTIBOD?
L37	20 SEA FILE=HCAPLUS ABB=ON PLU=ON	L36 AND (PARTICL? OR ?STYREN?

Immunoassay

Particles

                           OR ?METHYLMETHACRYL? OR GOLD OR SILICA OR GLASS OR OXIDE)
L39   23 SEA FILE=HCAPLUS ABB=ON   PLU=ON   L35 OR L37

=> d l39,ibib ab hitind hitstr 1-23

L39 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:252116 HCAPLUS
DOCUMENT NUMBER: 140:249788
TITLE: Method of coupling binding agents to a substrate
                          surface
INVENTOR(S):   Safsten, Par; Tidare, Mattias
PATENT ASSIGNEE(S):   Biacore Ab, Swed.
SOURCE: U.S. Pat. Appl. Publ., 14 pp.
                          CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004058456	A1	20040325	US 2003-449823	20030530
PRIORITY APPLN. INFO.:			SE 2002-1637 A	20020531
			US 2002-384626P P	20020531

AB   The present invention relates to a method of coupling multiple binding
     agents to resp. areas of a substrate surface by hydrodynamic addressing,
     using two laminar fluid flows that flow together in the same direction
     over the substrate surface with an interface to each other to successively
     couple the binding agents to the substrate areas, wherein each successive
     coupling of a binding agent to a surface area is followed or preceded by
     selective deactivation or activation of a selected surface area according
     to a defined protocol. The invention also relates to the use of such a
     binding agent-coupled substrate surface for anal. purposes. The present
     invention relates to a method of coupling multiple binding agents to resp.
     areas of a substrate by hydrodynamic addressing, using two laminar fluid
     flows that flow together in the same direction over the substrate surface
     with an interface to each other to successively couple the binding agents
     to the substrate areas, wherein each successive coupling of a binding
     agent to a surface area is followed or preceded by selective deactivation
     or activation of a selected surface area according to a defined protocol.

```
=> dup rem 146 148
FILE 'MEDLINE' ENTERED AT 11:10:45 ON 13 APR 2004

FILE 'EMBASE' ENTERED AT 11:10:45 ON 13 APR 2004
COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.
PROCESSING COMPLETED FOR L46
PROCESSING COMPLETED FOR L48
L49          22 DUP REM L46 L48 (3 DUPLICATES REMOVED)
             ANSWERS '1-11' FROM FILE MEDLINE
             ANSWERS '12-22' FROM FILE EMBASE

=> d que
L7              STR

H2N~~Ak~G1~G2        O≡C~~~O~~ Et        O~~Ak
  8    1  2  3        4  @5  6   7        @9 @10


REP G1=(1-10) 9-1 10-3
VAR G2=NH2/OH/5
NODE ATTRIBUTES:
CONNECT IS E2  RC AT    1
CONNECT IS E2  RC AT   10
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  10


STEREO ATTRIBUTES: NONE
L9        537472 SEA FILE=REGISTRY ABB=ON  PLU=ON  ((N>1 AND O/ELS) OR (O>1 AND
                 N/ELS)) AND NC=1 NOT (PMS/CI OR IDS/CI OR RSD/FA)
L13       236335 SEA FILE=REGISTRY ABB=ON  PLU=ON  L9 AND (N/ELS AND C/ELS AND
                 O/ELS AND H/ELS) AND 4/ELC.SUB
L15          174 SEA FILE=REGISTRY SUB=L13 SSS FUL L7
L17              STR

H2N~~Ak~G2        O≡C~~~O~~ Et
  1   2  3         4  @5  6   7


VAR G2=NH2/OH/5
NODE ATTRIBUTES:
CONNECT IS E2  RC AT    2
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   7

STEREO ATTRIBUTES: NONE
L19       279433 SEA FILE=REGISTRY ABB=ON  PLU=ON  ((N/ELS AND C/ELS AND H/ELS
                 AND 3/ELC.SUB) OR (N/ELS AND C/ELS AND H/ELS AND O/ELS AND
                 4/ELC.SUB)) AND NC=1 NOT (PMS/CI OR IDS/CI OR RSD/FA)
L21         2985 SEA FILE=REGISTRY SUB=L19 SSS FUL L17
L40         6955 SEA FILE=MEDLINE ABB=ON  PLU=ON  L15 OR L21 OR GLYCINE ETHYL
                 ESTER OR 2-AMINOETHOXY ETHANOL OR AEO RO EBE OR TTD
L41       258892 SEA FILE=MEDLINE ABB=ON  PLU=ON  IMMUNOASSAY+NT/CT
```

```
L42       146 SEA FILE=MEDLINE ABB=ON   PLU=ON   L40 AND L41
L43         3 SEA FILE=MEDLINE ABB=ON   PLU=ON   L42 AND AGGLUT?
L45         8 SEA FILE=MEDLINE ABB=ON   PLU=ON   L40 AND SUCCIN? AND (AGGLUT?
              OR L41 OR IMMUNO?)
L46        11 SEA FILE=MEDLINE ABB=ON   PLU=ON   L43 OR L45
L47     10341 SEA FILE=EMBASE ABB=ON   PLU=ON   L15 OR L21 OR GLYCINE ETHYL
              ESTER OR 2-AMINOETHOXY ETHANOL OR AEO RO EBE OR TTD
L48        14 SEA FILE=EMBASE ABB=ON   PLU=ON   L47 AND SUCCIN? AND (AGGLUT?
              OR L41 OR IMMUNO?)
L49        22 DUP REM L46 L48 (3 DUPLICATES REMOVED)
```

=> d 149 bib abs 1-22

```
L49   ANSWER 1 OF 22      MEDLINE on STN                      DUPLICATE 1
AN    1999359351     MEDLINE
DN    PubMed ID: 10428913
TI    Inhibition of polyamine synthesis arrests trichomonad growth and induces
      destruction of hydrogenosomes.
AU    Reis I A; Martinez M P; Yarlett N; Johnson P J; Silva-Filho F C;
      Vannier-Santos M A
CS    Laboratorio de Biologia da Superficie Celular, Instituto de Biofisica
      Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Brazil.
NC    AI-25361 (NIAID)
      AI-27857 (NIAID)
SO    Antimicrobial agents and chemotherapy, (1999 Aug) 43 (8) 1919-23.
      Journal code: 0315061. ISSN: 0066-4804.
CY    United States
DT    Journal; Article; (JOURNAL ARTICLE)
LA    English
FS    Priority Journals
EM    199909
ED    Entered STN: 19990925
      Last Updated on STN: 19990925
      Entered Medline: 19990909
AB    Trichomonad parasites such as Tritrichomonas foetus produce large amounts
      of putrescine (1,4-diaminobutane), which is transported out of the cell
      via an antiport mechanism which results in the uptake of a molecule of
      spermine.  The importance of putrescine to the survival of the parasite
      and its role in the biology of T. foetus was investigated by use of the
      putrescine analogue 1, 4-diamino-2-butanone (DAB).  Growth of T. foetus in
      vitro was significantly inhibited by 20 mM DAB, which was reversed by the
      addition of exogenous 40 mM putrescine.  High-performance liquid
      chromatography analysis of 20 mM DAB-treated T. foetus revealed that
      putrescine, spermidine, and spermine levels were reduced by 89, 52, and
      43%, respectively, compared to those in control cells.  The DAB treatment
      induced several ultrastructural alterations, which were primarily observed
      in the redox organelles termed hydrogenosomes.  These organelles were
      progressively degraded, giving rise to large vesicles that displayed
      material immunoreactive with an antibody to beta-
      succinyl-coenzyme A synthetase, a hydrogenosomal enzyme.  A
      protective role for polyamines as stabilizing agents in the trichomonad
      hydrogenosomal membrane is proposed.

L49   ANSWER 2 OF 22      MEDLINE on STN                      DUPLICATE 2
AN    1999102196     MEDLINE
DN    PubMed ID: 9882647
TI    Molecular characterization of eutF mutants of Salmonella typhimurium LT2
      identifies eutF lesions as partial-loss-of-function tonB alleles.
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